

ABSTRACT

CORRELATION AND DEMODULATION CIRCUIT FOR A
RECEIVER FOR SIGNALS MODULATED BY A SPECIFIC CODE

The correlation and demodulation circuit (6) in particular for a pseudo-random code radio-frequency signal receiver (1) includes a correlation stage (7) connected to control means (12) in particular for configuring said correlation stage in normal operating mode or in test mode. In normal operation said stage receives intermediate signals (IF) corresponding to the radio-frequency signals shaped in means (3) for receiving the modulated signals from the receiver. Said intermediate signals are correlated in a correlator control loop (8) of said correlation stage (7) with a replica of the first code supplied by a code generator (25). The code generator (25) is adapted via control means (12) to generate a replica of a pseudo-random code of shorter repetition length than the pseudo-random code of the radio-frequency signals. Intermediate test signals (IF_{test}) with a reduced pseudo-random code are supplied to the correlation stage (7) so as to perform a test representative of the correlation stage in closed loop operation more quickly than with conventional intermediate signals.

Figure 1